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Biochemistry and Molecular Biology of Fishes. Volume 2. Molecular Biology Frontiers, edited by P. W. Hochachka and T. P. Mommsen 448

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[SINTEF Appl. Chem., Aquacult. Res. Group, N-7034 Trondheim, Norway. tel:+47-73-596390; fax:+47-73-596363; e-mail:trygve.sigholt@kjemi

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[Clocchiatti: Ist. Econ. Organ. Aziendale-Univ. Studi Udine, Udine, Italy] *Anguilla anguilla.*

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[Fish. & Oceans West Vancouver Lab., 4160 Marine Dr., West Vancouver, BC, Canada V7V 1N6] *Oncorhynchus tshawytscha, O. kisutch, O. nerka, O. gorbuscha, O. keta, Salmo salar,* and *S. trutta.*

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[Dep. Fish. Biol., Univ. Ruhuna, Wellamadama, Matara, Sri Lanka. tel:9441 2681, ext. 4511; fax:9441 3122]

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[SOAFD Mar. Lab., P.O. Box 101, Victoria Rd., Aberdeen AB9 8DB, Scotland] *Gadus morhua* and *Melanogrammus aeglefinus*.

95-003163 Heessen, Henk and Niels Daan. COD DISTRIBUTION AND TEMPERATURE IN THE NORTH SEA. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar. Sci. Symp.* Vol. 198. p. 244-253. 1994. FR 40(2)

[Netherlands Inst. Fish. Res., P.O. Box 68, 1970 AB IJmuiden, Netherlands] *Gadus morhua*.

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Anguilla anguilla.

95-003165 Helle, Kristin. DISTRIBUTION OF EARLY JUVENILE ARCTO-NORWEGIAN COD (*GADUS MORHUS* L.) IN RELATION TO FOOD ABUNDANCE AND WATERMASS PROPERTIES. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar. Sci. Symp.* Vol. 198. p. 440-448. 1994. FR 40(2)

[Dep. Fish. & Mar. Biol., Univ. Bergen, High Technol. Cent, 5020 Bergen, Norway]

95-003166 Hernandez-Vazquez, Sergio. DISTRIBUTION OF EGGS AND LARVAE FROM SARDINE AND ANCHOVY OFF CALIFORNIA AND BAJA CALIFORNIA, 1951-1989. *Calif. Coop. Oceanic Fish. Invest. Rep.* Vol. 35. p. 94-107. 1994. In English with Spanish summ. FR 40(2)

[Cent. Invest. Biol. Noroeste, S.C., Km. 1 Carr. San Juan La Costa "El Comitan," Apdo. Postal 128, La Paz, B.C.S. 23000, Mexico] *Sardinops sagax* and *Engraulis mordax*.

95-003167 Hoagstrom, Christopher William. RELATIVE ABUNDANCE AND NICHE PARTITIONING IN THE FISH COMMUNITY OF THE PECOS RIVER, PECOS COUNTY, TEXAS. *M.S. thesis, Sul Ross State Univ.* 157p. 1994. From Masters Abstr. Int. 32(6):1584. 1994. Order No. MA1357229. FR 40(2)

95-003168 Horne, John K. SPATIAL VARIANCE OF CAPELIN (*MALLOTUS VILLOSUS*) IN COASTAL NEWFOUNDLAND WATERS. *Report of the Canada-USSR Capelin Symposium, "The Biology of Capelin in the Northwest Atlantic," St. John's, Newfoundland, Canada, 27-29 November 1990. J. E. Carscadden, editor. J. Northwest Atl. Fish. Sci.* Vol. 17. p. 33-43. 1994. FR 40(2)

[Ocean Sci. Cent. & Dep. Biol., Memorial Univ. Newfoundland, St. John's, NF, Canada A1C 5S7]

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[Inst. Landscape Ecol., Acad. Sci., Kvetna 8, 603 65 Brno, Czech Republic]

95-003170 Jurajda, Pavel; Milan Gelnar and Bozena Koubkova. OCCURRENCE OF ZINGEL (*ZINGEL ZINGEL*) IN THE RIVER MORAVA WITH NOTES ON ITS PARASITES. *Folia Zool.* 43(1):93-96. 1994. FR 40(2)

[Inst. Landscape Ecol., Acad. Sci. Czech Republic, Kvetna 8, 603 65 Brno, Czech Republic]

95-003171 Kenney, D. R. AN EVALUATION OF FACTORS INFLUENCING SALMONID HABITATION IN IDAHO MID-ELEVATION HEADWATER STREAMS. *M.S. thesis, Frostburg State Univ.* 1994. FR 40(2)

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Date for 127 species.

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[Coastal & Offshore Fish. Resour. Div., Natl. Fish. Res. & Dev. Agency Yangsan, Kyungnam 626-900, Korea] *Engraulis japonicus* and *Sardinops sagax melanostictus*.

GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC. (Continued)

95-003174 Konings, Ad. THE QUEST FOR THE RED ZEBRA. *Trop. Fish Hobbyist* 43(6):8-29. 1995. FR 40(2)
Melanochromis johanni, Pseudotropheus socolofi, Aulonocara hansbaenschi, and *Copadichromis borleyi* in Lake Malawi.

95-003175 Kruglov, Mikhail. THE BLACK SEA ICHTHYOFAUNA: COMPOSITION AND CONTEMPORARY CONDITION. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1342. 1994. Abstract only. FR 40(2)
[Inst. Biol. South. Seas, Lab. "Ecol. of Fish," 2 Nakhimov St., Sevastopol 33500, Ukraine] Data for 39 species.

95-003176 Kuiter, Rudie H. COASTAL FISHES OF SOUTH-EASTERN AUSTRALIA. *Univ. Hawaii Press* [469p.]. 1993. Available at $85.00 (cloth) from Univ. Hawaii Press, 2840 Kolowalu St., Honolulu 96822. FR 40(2)

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[ORSTOM, BP A5, Noumea, New Caledonia] Data for 790 species.

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95-003179 Lambert, Derek. BEAUTIFUL BLUE-EYES. *Trop. Fish Hobbyist* 43(8):195-199. 1995. FR 40(2)
Priapella compressa, P. intermedia, P. olmecae, P. bonita, and data for five other species in Mexico.

95-003180 Larson, Ralph J.; William H. Lenarz and Stephen Ralston. THE DISTRIBUTION OF PELAGIC JUVENILE ROCKFISH OF THE GENUS *SEBASTES* IN THE UPWELLING REGION OFF CENTRAL CALIFORNIA. *Calif. Coop. Oceanic Fish. Invest. Rep.* No. 35. p. 175-221. 1994. In English with Spanish summ. FR 40(2)
[Dep. Biol., San Francisco State Univ., San Francisco, CA 94132] Data for 16 species.

95-003181 Leiner, Srecko and Meta Povz. [FRESHWATER FISHES OF THE ISTRIAN PENINSULA.] *Ichthyos* No. 12. p. 23-33. 1993. In Serbo-Croatian with English summ. FR 40(2)
[Hrvatski prirodoslovni muzej Zagreb, Demetrova 1, 41000 Zagreb, Croatia] Data for 33 species in Croatia.

95-003182 Lough, R. G.; W. G. Smith; F. E. Werner; J. W. Loder; F. H. Page; C. G. Hannah; C. E. Naimie; R. I. Perry; M. Sinclair and D. R. Lynch. INFLUENCE OF WIND-DRIVEN ADVECTION ON INTERANNUAL VARIABILITY IN COD EGG AND LARVAL DISTRIBUTIONS ON GEORGES BANK: 1982 vs 1985. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar. Sci. Symp.* Vol. 198. p. 356-378. 1994. FR 40(2)
[NMFS, Northeast Fish. Sci. Cent., Woods Hole, MA 02543] *Gadus morhua*.

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[Fish. Environ. Consult., 48 Sunset Crest, St. James, Barbados] Data for 63 species.

95-003184 Matsuura, Yasunobu and Roger Hewitt. CHANGES IN THE SPATIAL PATCHINESS OF PACIFIC MACKEREL, *SCOMBER JAPONICUS*, LARVAE WITH INCREASING AGE AND SIZE. *U.S. Natl. Mar. Fish. Serv. Fish. Bull.* 93(1):172-178. 1994. FR 40(2)
[Inst. Oceanogr. Univ. Sao Paulo, Cidade Universitaria, Butantan, Sao Paulo 05508, Brazil]

95-003185 Menni, Roberto C. and Sergio E. Gomez. ON THE HABITAT AND ISOLATION OF *GYMNOCHARACINUS BERGI* (OSTEICHTHYES: CHARACIDAE). *Environ. Biol. Fishes* 42(1):15-23. 1995. FR 40(2)
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95-003186 Mirza, M. R. A NOTE ON THE FISHES OF THE RIVER HINGOL, PAKISTAN. *Pak. J. Zool.* 26(2):181 1994. FR 40(2)
[Dep. Zool., Gov. Coll., Lahore, Pakistan] *Aspidoparia moror, Crossocheilus diplocheilus, Tor putitora, Cyprinion milesi, C. microphthalmus*, and *C. watsoni*.

95-003187 Mirza, M. R.; M. N. Javed and M. Tariq. A NOTE ON THE FISH FAUNA OF THE RIVER ZHOB, PAKISTAN. *Pak. J. Zool.* 26(3):189. 1994. FR 40(2)
[Dep. Zool., Gov. Coll., Lahore, Pakistan] Data for 19 species.

95-003188 Moreno-Amich, R.; A. Vila; D. Boix and E. Garcia-Berthou. SPATIAL DISTRIBUTION OF NATIVE AND INTRODUCED FISH OF BANYOLES LAKE. *Int. Ver. Theor. Angew. Limnol. Verh.* 25(4):2179. 1994. Abstract only. FR 40(2)
[Inst. Ecol. Aquat. & Unitad Ecol., Univ. Girona, E-17071 Girona, Spain] Data for 12 species in Spain.

GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC. (Continued)

95-003189 Otis, Edward (Ted) Osgood IV. DISTRIBUTION, ABUNDANCE, AND COMPOSITION OF FISHES IN BRIGHT ANGEL AND KANAB CREEKS, GRAND CANYON NATIONAL PARK, ARIZONA. *M.S. thesis, Univ. Ariz.* 196p. 1994. From Masters Abstr. Int. 32(6):1576. 1994. Order No. MA1357295. FR 40(2)

Oncorhynchus mykiss, Salmo trutta, Rhinichthys osculus, Catostomus discobolus, and *C. latipinnis.*

95-003190 Paulin, Chris and Clive Roberts. THE ROCKPOOL FISHES OF NEW ZEALAND *TE IKA AARIA O AOTHEAROA. Mus. New Zealand Te Papa Tongarewa* [221p.] 1992. In English with Maori summ. Available at $45.00 (cloth) from Fish Sect., Mus. New Zealand, P.O. Box 467, Wellington, New Zealand. FR 40(2)

[Fish Sect., Mus. New Zealand, P.O. Box 467, Wellington, New Zealand. tel:+64-4-385 9609; fax:+64-4-384 6035; e-mail:chrisp

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95-003191 Paulovits, G.; I. Tatrai; P. Biro; M. Perenyi and Gy. Lakatos. FISH STOCK STRUCTURE IN THE LITTORAL ZONE OF LAKE BALATON. *Int. Ver. Theor. Angew. Limnol. Verh.* 25(4):2162-2163. 1994. FR 40(2)

[Balaton Limnol. Res. Inst., Hungarian Acad. Sci., H-8237 Tihany, Hungary] Data for 23 species in Hungary.

95-003192 Penaz, Milan and Pavel Jurajda. FISH ASSEMBLAGES OF THE MORAVA RIVER: LONGITUDINAL ZONATION AND PROTECTION. *Folia Zool.* 42(4):317-328. 1993. FR 40(2)

[Inst. Landscape Ecol., Acad. Sci., Kvetna 8, 603 65 Brno, Czech Republic] Data for 68 species in the Czech Republic.

95-003193 Pender, Michael J. EFFECTS OF WATER CHEMISTRY, PHYSICAL HABITAT, AND WATERSHED CHARACTERISTICS ON CYPRINID PRESENCE AND DISTRIBUTION IN WESTERN MARYLAND. *M.S. thesis, Frostburg State Univ.* 1991. FR 40(2)

95-003194 Piotrowski, Wieslaw. [LIST OF THE FAUNA OF POLESKI NATIONAL PARK.] *Parki Nar. Rez. Przyr.* 13(1):47-61. 1994. In Polish with English summ. FR 40(2)

[Poleski Park Narodowy, ul. Chelmska 7, 22-234 Urszulin, Poland] Data for nine species in Poland.

95-003195 Poff, N. LeRoy and J. David Allan. FUNCTIONAL ORGANIZATION OF STREAM FISH ASSEMBLAGES IN RELATION TO HYDROLOGICAL VARIABILITY. *Ecology* 76(2):606-627. 1995. FR 40(2)

[Dep. Zool., Univ. Md., College Park 20742]

95-003196 Povz, Meta. [FRESHWATER FISHES OF THE DRAVA AND THE MURA RIVER BASIN, SLOVENIA.] *Ichthyos* No. 12. p. 60. 1993. Slovac and English abstracts only. FR 40(2)

[Zavod ribistvo, 61000 Ljubljana, Zupanciceva, Slovenia]

95-003197 Povz, Meta. [RED LIST OF FRESHWATER FISHES OF THE MURA RIVER BASIN IN SLOVENIA.] *Ichthyos* No. 12. p. 56-57. 1993. Slovac and English abstracts only. FR 40(2)

[Zavod ribistvo, 61000 Ljubljana, Zupanciceva, Slovenia] *Umbra krameri* and data for 43 other species.

95-003198 Randall, John E. TWENTY-TWO NEW RECORDS OF FISHES FROM THE RED SEA. *Fauna Saudi Arabia* Vol. 14. p. 259-275. 1994. In English with Arabic summ. FR 40(2)

[Bernice P. Bishop Mus., P.O. Box 19000-A, Honolulu, HI 96817] Data for 22 species.

95-003199 Randall, John E.; Nigel Downing; Linda J. McCarthy; Brock E. Stanaland and A. Bradley Tarr. FIFTY-ONE NEW RECORDS OF FISHES FROM THE ARABIAN GULF. *Fauna Saudi Arabia* Vol. 14. p. 220-258. 1994. In English with Arabic summ. FR 40(2)

[Bernice P. Bishop Mus., P.O. Box 19000-A, Honolulu, HI 96817] Data for 51 species.

95-003200 Reitz, Elizabeth J. ARCHAEOLOGY OF TRANTS, MONTSERRAT. PART 2. VERTEBRATE FAUNA. *Ann. Carnegie Mus.* 63(4):297-317. 1994. FR 40(2)

[Mus. Nat. Hist., Nat. Hist. Bldg., Univ. Ga., Athens 30602-1882] Data for 15 species.

95-003201 Rister, Paul W. INVENTORY AND CLASSIFICATION OF STREAMS IN THE LOWER CUMBERLAND RIVER AND TENNESSEE RIVER DRAINAGES. *Ky. Dep. Fish Wildl. Resour. Fish. Bull.* No. 92. 211p. 1994. FR 40(2)

Data for 113 species in Kentucky.

95-003202 Rodriguez-Romero, Jesus; Leonardo Andres Abitia-Cardenas, Felipe Galvan-Magana and Humberto Chavez-Ramos. COMPOSITION, ABUNDANCE AND SPECIFIC RICHNESS OF FISHES FROM CONCEPCION BAY, BAJA CALIFORNIA SUR, MEXICO. *Cienc. Mar.* 20(3):321-350. 1994. In Spanish and English. FR 40(2)

[Cent. Invest. Biol. Noroeste, S.C., Km 1, carretera a San Juan de la Costa, El Comitan, Apdo. postal 128, La Paz, B.C.S. 23000, Mexico] Data for 59 species.

GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC. (Continued)

95-003203 Ropke, Andreas and Christine Freitas. EFFECTS OF SMALL-SCALE HYDROGRAPHICAL CHANGE ON THE OCCURRENCE OF LARVAL INDIAN OIL-SARDINE (*SARDINELLA LONGICEPS*) AT THE COAST OF OMAN (ARABIAN SEA). *Bull. Mar. Sci.* 56(1):211-221. 1995. FR 40(2)

[Rosenstiel School Mar. & Atmos. Sci., Div. Mar. Biol. & Fish., Univ. Miami, 4600 Rickenbacker Causeway, Miami, FL 33149-1098]

95-003204 Rose, G. A.; B. A. Atkinson; J. Baird; C. A. Bishop and D. W. Kulka. CHANGES IN DISTRIBUTION OF ATLANTIC COD AND THERMAL VARIATIONS IN NEWFOUNDLAND WATERS, 1980-1992. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar. Sci. Symp.* Vol. 198. p. 542-552. 1994. FR 40(2)

[Dep. Fish. & Oceans, Sci. Branch, Groundfish Div., St. John's, NF, Canada A1C 5X1] *Gadus morhua* in Canada.

95-003205 Salminen, Matti; Sakari Kuikka and Esa Erkamo. DIVERGENCE IN THE FEEDING MIGRATION OF BALTIC SALMON (*SALMO SALAR* L.): THE SIGNIFICANCE OF SMOLT SIZE. *Workshop on the Postsmolt Biology of Salmonids in Ranching Systems, November 10-12, 1992, Umea, Sweden. Torleif Eriksson and Torborn Jarvi, editors. Nord. J. Freshwater Res.* No. 69. p. 32-42. 1994. FR 40(2)

[Finnish Game & Fish. Res. Inst., Fish. Div., P.O. Box 202, F-00151 Helsinki, Finland]

95-003206 Schneider, David C. DISTRIBUTION OF CAPELIN (*MALLOTUS VILLOSUS*) IN RELATION TO COASTAL UPWELLING IN THE AVALON CHANNEL. *Report of the Canada-USSR Capelin Symposium, "The Biology of Capelin in the Northwest Atlantic," St. John's, Newfoundland, Canada, 27-29 November 1990. J. E. Carscadden, editor. J. Northwest Atl. Fish. Sci.* Vol. 17. p. 23-31. 1994. FR 40(2)

[Ocean Sci. Cent., Memorial Univ. Newfoundland, St. John's, NF, Canada A1B 3X7]

95-003207 Sokolov, A. E., editor. [FLORA & FAUNA OF USSR NATURE RESERVES: FAUNA OF THE DARVINSKY NATURE RESERVE.] *Moscow Acad. Sci.* 64p. 1988. In Russian. FR 40(2)

Data for 28 species.

95-003208 Stewart, Kathlyn M. A LATE MIOCENE FISH FAUNA FROM LOTHAGAM, KENYA. *J. Vertebr. Paleontol.* 14(4):592-594. 1994. FR 40(2)

[Canadian Mus. Nat., P.O. Box 3443, Stn. D, Ottawa, ON, Canada K1P 6P4] Data for 11 genera.

95-003209 Stokes, F. Joseph. HANDGUIDE TO THE CORAL REEF FISHES OF THE CARIBBEAN AND ADJACENT TROPICAL WATERS INCLUDING FLORIDA, BERMUDA AND THE BAHAMAS. *Lippincott & Crowell Publishers (New York)* 160p. 1980. FR 40(2)

95-003210 Stokesbury, Michael J. W. and Kevin D. E. Stokesbury. OCCURRENCE OF JUVENILE ATLANTIC MENHADEN, *BREVOORTIA TYRANNUS*, IN THE ANNAPOLIS RIVER, NOVA SCOTIA. *Estuaries* 16(4):827-829. 1993. FR 40(2)

[Dep. Biol. Univ. New Brunswick, Bag Service No. 4511, Fredericton, NB, Canada E3B GE1]

95-003211 Tamoikine, M. Y. and D. Pandare. ICHTHYOPLANKTON STUDY IN GUINEAN AND SENEGALESE COASTAL AND ESTUARINE WATERS. RESULTS OF SURVEYS: 1988-1992, PREPARED WITHIN THE FRAMEWORK OF THE AFRICAN COASTAL MARINE PROGRAMME (COMARAF). *Unesco Rep. Mar. Sci.* No. 65. 69p. 1994. In English with French, Spanish, Russian, Arabic and Chinese abstracts. FR 40(2)

[Inst. Biol. South. Seas, Acad. Sci. Ukraine, 2 Nakhimov Ave., Sevastopol, 33500 Crimea, Ukraine] Data for 140 species.

95-003212 Taylor, Christopher M. and Nicholas J. Gotelli. THE MACROECOLOGY OF *CYPRINELLA*: CORRELATES OF PHYLOGENY, BODY SIZE, AND GEOGRAPHICAL RANGE. *Am. Nat.* 144(4):549-569. 1994. FR 40(2)

[Dep. Zool., Univ. Okla., Norman 73019] Data for 27 species in North America.

95-003213 Tilney, R. L. and C. D. Buxton. A PRELIMINARY ICHTHYOPLANKTON SURVEY OF THE TSITSIKAMMA NATIONAL PARK. *S. Afr. J. Zool.* 29(3):204-211. 1994. FR 40(2)

[Dep. Ichthyol. & Fish. Sci., Rhodes Univ., P.O. Box 94, Grahamstown 6140, South Africa] Data for 24 families in South Africa.

95-003214 Ursin, Michael J. A GUIDE TO FISHES OF THE TEMPERATE ATLANTIC COAST. *E.P. Dutton (New York)* 263p. 1977. FR 40(2)

95-003215 Vasiliu, George D. and Gheorghe I. Manea. [THE HISTORY OF THE ROMANIAN ICHTHYOLOGY.] *Bul. Cercet. Piscic.* Suppl. 1. 332p., pl. A-H, 1-68. 1987. In Rumanian with English, French, German, and Russian summ. FR 40(2)

Data for 65 species.

95-003216 Victor, Reginald and Jacob Meye. FURTHER STUDIES ON THE FISH COMMUNITIES OF A PERTURBED STREAM IN SOUTHERN NIGERIA. *J. Trop. Ecol.* 10(4):627-632. 1994. FR 40(2)

[Dep. Biol., Coll. Sci., Sultan Qaboos Univ., P.O. Box 36, Al Khod 123, Oman] Data for 34 species.

GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC. (Continued)

95-003217 Waid, Roxana M. THE DISTRIBUTION OF THE FISHES OF THE CRATER LAKES OF NICARAGUA. *M.S. thesis, Frostburg State Univ.* 1991. FR 40(2)

95-003218 Walls, Jerry G. FISHES OF THE NORTHERN GULF OF MEXICO. *T.F.H. Publ., Inc.* 432p. 1975. FR 40(2)

Data for 502 species.

95-003219 White, Steve. FWA CICHLIDS AND OTHER RARITIES. *Trop. Fish Hobbyist* 43(6):64-70. 1995. FR 40(2)

Schwetzochromis machadoi, S. neodon, S. stormsi, Cyclopharynx schwetzi, C. fwae, C. microdon, and *Haplochromis brauschi* in Zaire.

95-003220 Williams, Christopher D.; David M. Nelson; Mark E. Monaco; Steven L. Stone; Carol Iancu; Linda Coston-Clements; Lawrence R. Settle and Elizabeth A. Irlandi. DISTRIBUTION AND ABUNDANCE OF FISHES AND INVERTEBRATES IN EASTERN GULF OF MEXICO ESTUARIES. *NOAA (Natl. Oceanic Atmos. Admin.) ELMR (Estuarine Living Mar. Resour.) Rep.* No. 6. 195p. 1990. FR 40(2)

Data for 36 species.

95-003221 Zetina-Moguel, Carlos; Javier Frias-Tuyin; Roberto Pat-Canul; Lourdes Perez-Aranda and Roger Medina-Gonzalez. MORPHOLOGICAL, PHYSICAL, CHEMICAL AND BIOLOGICAL DESCRIPTION OF CENOTE DZITYA, YUCATAN, MEXICO. *Lake Reservoir Manage.* 9(2):126. 1994. Abstract only. FR 40(2)

[Univ. Autonoma Yucatan, Fac. Ingenieria Civil, Coordinacion Ingenieria Ambiental, Calle 41 x 14 Ex terrenos "El Fenix," CP 97150, Merida, Yucatan, Mexico. fax:99-224-691] *Gambusia yucatana, Astyanax fasciatus,* and *Rhamdia guatemalensis.*

ABUNDANCE, FACTORS OF; SURVIVAL AND MORTALITY

95-003222 Anderson, John T. and Brad de Young. STAGE-DEPENDENT DENSITY OF COD EGGS AND LARVAE (*GADUS MORHUA* L.) IN NEWFOUNDLAND WATERS. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar. Sci. Symp.* Vol. 198. p. 654-665. 1994. FR 40(2)

[Dep. Fish. & Oceans, Northwest Atl. Fish. Cent., P.O. Box 5667, St. John's, NF, Canada A1C 5X1]

95-003223 Astthorsson, Olafur S.; Astthor Gislason and Asta Gudmundsdottir. DISTRIBUTION, ABUNDANCE, AND LENGTH OF PELAGIC JUVENILE COD IN ICELANDIC WATERS IN RELATION TO ENVIRONMENTAL CONDITIONS. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar. Sci. Symp.* Vol. 198. p. 529-541. 1994. FR 40(2)

[Mar. Res. Inst., Skulagata 4, P.O. Box 1390, 121 Reykjavik, Iceland] *Gadus morhua.*

95-003224 Beauchamp, David A.; Mark G. LaRiviere and G. L. Thomas. EVALUATION OF COMPETITION AND PREDATION AS LIMITS TO JUVENILE KOKANEE AND SOCKEYE SALMON PRODUCTION IN LAKE OZETTE, WASHINGTON. *Special Section: Kokanee Investigations. Vaughn L. Paragamian, coordinator. N. Am. J. Fish. Manage.* 15(1):208-219. 1995. FR 40(2)

[Coop. Fish & Wildl. Res. Unit, Dep. Fish. & Wildl./Ecol. Cent., Utah State Univ., Logan 84322-5255] *Ptychocheilus oregonensis, Oncorhynchus clarki,* and *O. nerka.*

95-003225 Bonneau, Joseph L. SEASONAL HABITAT USE AND CHANGES IN DISTRIBUTION OF JUVENILE BULL TROUT AND CUTTHROAT TROUT IN SMALL, HIGH GRADIENT STREAMS. *M.S. thesis, Univ. Idaho* 92p. 1994. FR 40(2)

Salvelinus confluentus and *Oncorhynchus clarki.*

95-003226 Brosset, A. and D. Lachaise. EVOLUTION AS A LOTTERY CONFLICTING WITH EVOLUTION VIA SEXUAL SELECTION IN AFRICAN RAIN FOREST-DWELLING KILLIFISHES (CYPRINODONTIDAE, RIVULINAE, *DIAPTERON*). *Evol. Biol.* Vol. 28. p. 217-264. 1995. FR 40(2)

[Natl. Mus. Nat. Hist., Lab. Gen. Ecol., F-91800 Brunoy, France] Data for five species in Gabon.

95-003227 Buch, Erik; Svend Aage Horsted and Holger Hovgard. FLUCTUATIONS IN THE OCCURRENCE OF COD IN GREENLAND WATERS AND THEIR POSSIBLE CAUSES. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar. Sci. Symp.* Vol. 198. p. 158-174. 1994. FR 40(2)

[Royal Danish Admin. Navigation & Hydrogr., Overgaden o. Vandet 62B, DK-1023 Copenhagen K, Denmark] *Gadus morhua.*

95-003228 Cambray, Jim. BLAAUWKRANTZ NATURE RESERVE, COMMUNITY INVOLVEMENT AND THE EASTERN PROVINCE ROCKY (*SANDELIA BAINSII*). *Naturalist (S. Afr.)* 37(3):8-10. 1993. FR 40(2)

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[Dep. Fish. & Allied Aquacult., Auburn Univ., Auburn, AL 36849. tel:205-844-9322; e-mail:ddevries@ag.auburn.edu] *Dorosoma cepedianum, D. petenense, Lepomis macrochirus,* and *Micropterus dolomieu.*

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[Dep. Syst. Ecol., Stockholm Univ., S-106 91 Stockholm, Sweden]

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[Univ. Md., Cent. Environ. & Estuarine Studies, P.O. Box 38, Solomons 20688-0038] *Gadus morhua*.

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95-003256 Wilkonska, Halina. INTERSPECIES RELATIONS IN FISH FRY COMMUNITY IN HEATED KONIN LAKES. *Ecological Disturbances in Heated Konin Lakes. Jan A. Szczerbowski, Tadeusz Backiel, Boguslaw Zdanowski, and Jerzy Waluga, editors. Arch. Pol. Fish.* 2(2):311-320. 1994. In English with Polish summ. FR 40(2)
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[CSIRO Div. Fish., GPO Box 1538, Hobart, Tasm. 7001, Australia] *S. bassensis flindersi.*

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[Ichthyol. Sect., Res. Div., Canadian Mus. Nat., P.O. Box 3443, Stn. D, Ottawa, ON, Canada K1P 6P4] *Varicorhinus capoeta.*

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[Fac. Cienc. Biol., Univ. Autonoma Nuevo Leon, Apdo. Postal 504, San Nicolas de los Garza, N.L. 66450, Mexico] Data for 16 species.

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[Dep. Ichthyol., Am. Mus. Nat. Hist., Central Park W. at 79th St., New York, NY 10024-5192]

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[Apdo. Aereo 1167, Bucaramanga, Colombia] *L. minimus, L. okapia, L. spilus, L. nesiotes, L. elasson*, and *L. heterochroma.*

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[17, rue du Docteur Magnan, (U.R.A. 1761 C.N.R.S.), F-75013 Paris, France] *Rutilus, Scardinius, Tinca, Barbus*, and *Silurus.*

95-003266 Gery, Jacques. CHARACOIDS OF THE WORLD. *T.F.H. Publ., Inc.* 672p. 1977. FR 40(2)

95-003267 Gill, Anthony C. IDENTIFICATION OF THE PRIMARY TYPES OF PSEUDOCHROMINE SPECIES DESCRIBED BY PIETER BLEEKER, WITH LECTOTYPE DESIGNATIONS FOR *PSEUDOCHROMIS TAPEINOSOMA* AND *P. XANTHOCHIR* (PERCIFORMES: PSEUDOCHROMIDAE). *Copeia* 1995(1):243-246. 1995. FR 40(2)
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[Univ. Hawaii, Dep. Zool. & Hawaii Inst. Mar. Biol., The Mall, Honolulu 96822]

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[J.L.B. Smith Inst. Ichthyol., Private Bag 1015, Grahamstown 6140, South Africa]

95-003270 Harold, Antony S.; Richard P. Vari; A. Machado-Allison and F. Provenzano. *CREAGRUTUS HYSGINUS* (TELEOSTEI: CHARACIFORMES), A NEW SPECIES OF CHARACID FROM NORTHEASTERN VENEZUELA, SUCRE STATE. *Copeia* 1994(4):975-979. 1994. In English with Spanish summ. FR 40(2)
[Dep. Ichthyol., Calif. Acad. Sci., Golden Gate Park, San Francisco 94118]

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[Dep. Biol., Lafayette Coll., Easton, PA 18042] Data for 31 species.

95-003272 McEachran, John D. and Richard E. Matheson, Jr. *BREVIRAJA MOULDI* NOM. NOV., A SUBSTITUTE NAME FOR *BREVIRAJA SCHROEDERI* MCEACHRAN AND MATHESON, 1985 (CHONDRICHTHYES: RAJOIDEI). *Copeia* 1995(1):240-241. 1995. FR 40(2)
[Dep. Wildl. & Fish. Sci., Tex. A&M Univ., College Station 77803-2258]

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95-003275 Pyle, Richard L. and John E. Randall. A REVIEW OF HYBRIDIZATION IN MARINE ANGELFISHES (PERCIFORMES: POMACANTHIDAE). *Environ. Biol. Fishes* 41(1-4):127-145. 1994. FR 40(2)
[Bernice P. Bishop Mus., Box 19000-A, Honolulu, HI 96817] *Apolemichthys armitagei* and 10 hybrid pomacanthids.

95-003276 Randall, John E. ON THE VALIDITY OF THE EASTERN PACIFIC LABRID FISHES *THALASSOMA GRAMMATICUM* GILBERT AND *T. VIRENS* GILBERT. *Bull. Mar. Sci.* 56(2):670-675. 1995. FR 40(2)
[Bernice P. Bishop Mus., Box 19000-A, Honolulu, HI 96817] *T. lucasanum.*

95-003277 Randall, John E. and Jonathan K. L. Mee. *PARDACHIRUS BALIUS*, A NEW SOLE (PLEURONECTIFORMES: SOLEIDAE) FROM OMAN. *Fauna Saudi Arabia* Vol. 14. p. 341-347. In English with Arabic summ. FR 40(2)
[Bernice P. Bishop Mus., P.O. Box 19000-A, Honolulu, HI 96817] *P. morrowi.*

95-003278 Randall, John E. and John L. Earle. *DORYRHAMPHUS AUROLINEATUS*, A NEW PIPEFISH (SYNGNATHIDAE) FROM MASIRAH ISLAND, OMAN. *Fauna Saudi Arabia* Vol. 14. p. 282-286. 1994. In English with Arabic summ. FR 40(2)
[Bernice P. Bishop Mus., P.O. Box 19000-A, Honolulu, HI 96817]

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[Bernice P. Bishop Mus., P.O. Box 19000-A, Honolulu, HI 96817] *Amblyeleotris downingi, A. triguttata, Coryogalops monspilus, C. tessellatus, Coryphopterus inframaculatus,* and *Ego zebra.*

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[Bernice P. Bishop Mus., P.O. Box 19000-A, Honolulu, HI 96817] *H. leptotaenia, H. signifer,* and *H. melus.*

95-003281 Randall, John E. and Jonathan K. L. Mee. A NEW LABRID FISH OF THE GENUS *THALASSOMA* FROM OMAN. *Fauna Saudi Arabia* Vol. 14. p. 302-308. 1994. In English with Arabic summ. FR 40(2)
[Bernice P. Bishop Mus., P.O. Box 19000-A, Honolulu, HI 96817] *T. loxum* and data for six other species.

95-003282 Randall, John E. and A. Bradley Tarr. *TRICHONOTUS ARABICUS* (PERCIFORMES: TRICHONOTIDAE), A NEW SPECIES OF SAND DIVER FROM THE ARABIAN GULF AND OMAN. *Fauna Saudi Arabia* Vol. 14. p. 309-316. 1994. In English with Arabic summ. FR 40(2)
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95-003284 Yang Junxing and Chen Yinrui. [SYSTEMATIC REVISION OF *SPINIBARBUS* FISHES (CYPRINIFORMES: CYPRINIDAE).] *Zool. Res.* 15(4):1-10. 1994. In Chinese with English summ. FR 40(2)

[Kunming Inst. Zool., Acad. Sinica, Kunming 650223, China] *S. hollandi, S. sinensis, S. denticulatus, S. yunnanensis,* and *S. polylepis* in China and Taiwan.

PARASITES AND DISEASES-GENERAL

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[Dep. Fish. & Oceans, Aquacult. & Habitat Sci. Branch, Ottawa, ON, Canada K1A 0E6]

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[Dep. Biol. Sci., Simon Fraser Univ., Burnaby, BC, Canada V5A 1S6]

95-003287 Dalmo, R. A.; R. McQueen Leifson and J. Bogwald. MICROSPHERES AS ANTIGEN CARRIERS: STUDIES ON INTESTINAL ABSORPTION AND TISSUE LOCALIZATION OF POLYSTYRENE MICROSPHERES IN ATLANTIC SALMON, *SALMO SALAR* L. *J. Fish Dis.* 18(1):87-91. 1995. FR 40(2)

[Dep. Exp. Pathol., Inst. Med. Biol., Univ. Tromso, N-9037 Tromso, Norway]

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95-004104 Ajayi, T. O.; T. G. Tobor; A. Amadi and R. E. K. Udolisa. SUCCESS OF POLE AND LINE SKIPJACK (*KATSUWONUS PELAMIS*) FISHING IN NIGERIA ENHANCED BY THE INTRODUCTION OF FISH AGGREGATING DEVICES (FADs). *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1324-1325. 1994. Abstract only. FR 40(2)
[Nigerian Inst. Oceanogr. & Mar. Res., P.M.B. 12729, Victoria Island, Lagos, Nigeria]

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95-004105 Angel, Martin V. LONG-TERM, LARGE-SCALE PATTERNS IN MARINE PELAGIC SYSTEMS. *Aquatic Ecology: Scale, Pattern and Process. P. S. Giller, A. G. Hildrew, and D. G. Raffaelli, editors. Symp. Br Ecol. Soc.* No. 34. p. 403-439. 1994. FR 40(2)

[Inst. Oceanogr. Sci., Deacon Lab., Wormley, Godalming, Surrey GU8 5UB, England]

95-004106 Ansley, Henry. GEORGIA'S ARTIFICIAL REEFS. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1325. 1994. Abstract only. FR 40(2)

[Outer Continental Shelf Program, Coastal Resour., One Conservation Way, Brunswick, GA 31523-8600]

95-004107 Austin, Herb; James Kirkley and Jon Lucy. BY-CATCH AND THE FISHERY FOR ATLANTIC MENHADEN (*BREVOORTIA TYRANNUS*) IN THE MID-ATLANTIC BIGHT: AN ASSESSMENT OF THE NATURE AND EXTENT OF BY-CATCH. *Va. Sea Grant Mar. Resour Advisory* No. 53. 39p. 1994. FR 40(2)

[Coll. William & Mary, School Mar. Sci., Va. Inst. Mar Sci., Gloucester Point 23062] Data for 35 species.

95-004108 Avsar, Dursun. POPULATION PARAMETERS OF SPRAT (*SPRATTUS SPRATTUS PHALERICUS* RISSO) FROM THE TURKISH BLACK SEA COAST. *Fish. Res. (Amst.)* 21(3-4):437-453. 1995. FR 40(2)

[Inst. Mar. Sci., Middle East Tech. Univ., P.O. Box 28, Tr33731, Erdemli, Icel, Turkey]

95-004109 Bagge, Ole and Fritz Thurow. THE BALTIC COD STOCK: FLUCTUATIONS AND POSSIBLE CAUSES. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar Sci. Symp.* Vol. 198. p. 254-268. 1994. FR 40(2)

[Danish Inst. Fish. & Mar. Res., Charlottenlund Castle, DK-2920 Charlottenlund, Denmark] *Gadus morhua.*

95-004110 Baqueiro C., Erik and Ramon Mendez L. ARTIFICIAL REEFS: AN ALTERNATIVE TO ENHANCE MEXICAN LITTORAL COMMERCIAL FISHERIES. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1014-1020. 1994. FR 40(2)

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95-004111 Barnabe, Gilbert and Claude Chauvet EVALUATION OF FISH FAUNA OF MONACO'S SUBMARINE NATURE RESERVE. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1326-1327. 1994. Abstract only. FR 40(2)

Chromis chromis and *Diplodus sargus.*

95-004112 Barss, William H. PACIFIC HAGFISH, *EPTATRETUS STOUTI*, AND BLACK HAGFISH, *E. DEANI*: THE OREGON FISHERY AND PORT SAMPLING OBSERVATIONS, 1988-92. *Mar. Fish. Rev.* 55(4):19-30. 1993. FR 40(2)

[Mar. Reg., Dep. Fish & Wildl., Mar. Sci. Dr., Bldg. #3, Newport, OR 97365]

95-004113 Bayle-Sempere, Just T.; Alfonso A. Ramos-Espla and Jose A. Garcia Charton. INTRA-ANNUAL VARIABILITY OF AN ARTIFICIAL REEF FISH ASSEMBLAGE IN THE MARINE RESERVE OF TABARCA (ALICANTE, SPAIN, SW MEDITERRANEAN). *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):824-835. 1994. FR 40(2)

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95-004114 Beets, Jim and Mark A. Hixon. DISTRIBUTION, PERSISTENCE, AND GROWTH OF GROUPERS (PISCES: SERRANIDAE) ON ARTIFICIAL AND NATURAL PATCH REEFS IN THE VIRGIN ISLANDS. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):470-483. 1994. FR 40(2)

[Dep. Biol., Univ. Richmond, Richmond, VA 23173] *Epinephelus striatus, E. afer, E. cruentatus, E. fulvus,* and *E. guttatus.*

95-004115 Bell, Melvin and J. Wayne Hall. EFFECTS OF HURRICANE HUGO ON SOUTH CAROLINA'S MARINE ARTIFICIAL REEFS. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):836-847. 1994. FR 40(2)

[Mar. Artificial Reef Program, Mar. Resour. Div., P.O. Box 12559, Charleston, SC 29412] *Centropristis striata, Archosargus probatocephalus, Chaetodipterus faber, Mycteroperca microlepis,* and *Mycteroperca phenax.*

95-004116 Bell, Melvin and Wayne J. Hall. SOUTH CAROLINA'S MARINE ARTIFICIAL REEF PROGRAM AND MANAGEMENT PLAN. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci* 55(2-3):1327-1328. 1994. Abstract only. FR 40(2)

[Div. Mar. Resour., Wildl. & Mar. Resour. Dep., P.O. Box 12559, Charleston, SC 29412]

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[Artificial Reef Dev. Cent., Sport Fishing Inst., 1010 Massachusetts Ave. N.W., Suite 320, Washington, DC 20001]

95-004119 Bohnsack, James A.; Douglas E. Harper; David B. McClellan and Mark Hulsbeck. EFFECTS OF REEF SIZE ON COLONIZATION AND ASSEMBLAGE STRUCTURE OF FISHES AT ARTIFICIAL REEFS OFF SOUTHEASTERN FLORIDA, U.S.A. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):796-823. 1994. FR 40(2)

[NOAA, NMFS, Southeast Fish. Sci. Cent., Miami Lab., 75 Virginia Beach Dr., Miami, FL 33149] Data for 127 species.

95-004120 Bombace, G.; G. Fabi; L. Fiorentini and S. Speranaza. ANALYSIS OF THE EFFICACY OF ARTIFICIAL REEFS LOCATED IN FIVE DIFFERENT AREAS OF THE ADRIATIC SEA. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):559-580. 1994. FR 40(2)

[Ist. Ric. Pesca. Mar. (I.R.Pe.M.), Consiglio Naz. Ric. (C.N.R.), Moto Mandracchio, 60100 Ancona, Italy] *Sciaena umbra, Umbrina cirrhosa, Scorpaena porcus*, and data for 76 other species.

95-004121 Bombace, Giovanni; Dino Levi and N. Greco. ARTIFICIAL REEFS IN SICILY. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1329. 1994. Abstract only. FR 40(2)

[Ist. Ric. Pesca Marittima (CNR), Molo Mandracchio, 60100, Ancona, Italy]

95-004122 Bortone, Stephen A.; James Van Tassell; Alberto Brito; Jesus M. Falcon; Javier Mena and Charles M. Bundrick. ENHANCEMENT OF THE NEARSHORE FISH ASSEMBLAGE IN THE CANARY ISLANDS WITH ARTIFICIAL HABITATS. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):602-608. 1994. FR 40(2)

[Biol. Dep., Univ. West Fla., Pensacola 32514] Data for 37 species.

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[South Australian Res. & Dev. Inst., Aquat. Sci., P.O. Box 120, Henley Beach, S.A. 5022, Australia] Data for 90 species.

95-004124 Brander, Keith, editor. SPAWNING AND LIFE HISTORY INFORMATION FOR NORTH ATLANTIC COD STOCKS. *Int. Counc. Explor. Sea Coop. Res. Rep.* No. 205. 150p. 1994. FR 40(2)

[Fish. Lab., Lowestoft, Suffolk NR33 0HT, England] *Gadus morhua*.

95-004125 Brock, Richard E. BEYOND FISHERIES ENHANCEMENT: ARTIFICIAL REEFS AND ECOTOURISM. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1181-1188. 1994. FR 40(2)

[Inst. Mar. Biol. & Sea Grant Coll. Program, Univ. Hawaii, 1000 Pope Rd. (MSB 204), Honolulu 96822] Data for 12 species in Hawaii.

95-004126 Brock, Richard E. and Alan K. H. Kam. FOCUSING THE RECRUITMENT OF JUVENILE FISHES ON CORAL REEFS. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):623-630. 1994. FR 40(2)

[Univ. Hawaii Sea Grant Program, 1000 Pope Rd., MSB 204, Honolulu 96822] Data for 14 species in Hawaii.

95-004127 Bugley, Karen E. and Arnold H. Carr. MASSACHUSETTS COASTAL WATERS: THE STATUS AND POTENTIAL FOR ARTIFICIAL REEFS. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1330-1331. 1994. Abstract only. FR 40(2)

[Div. Mar. Fish., 18 Rt. 6A, Sandwich, MA 02543]

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95-004128 California Department of Fish and Game. REVIEW OF SOME CALIFORNIA FISHERIES FOR 1993. *Calif. Coop. Oceanic Fish. Invest. Rep.* Vol. 35. p. 7-18. 1994. FR 40(2)

[Mar. Resour. Div., 8604 La Jolla Shores Dr., La Jolla, CA 92038-1508] Data for 16 species.

95-004129 Campos, W. L.; A. G. C. del Norte-Campos and J. W. McManus. YIELD ESTIMATES, CATCH, EFFORT AND FISHERY POTENTIAL OF THE REEF FLAT IN CAPE BOLINAO, PHILIPPINES. *J. Appl. Ichthyol.* 10(2-3):82-95. 1994. FR 40(2)

[McManus: ICLARM, MC P.O. Box 2631, 0718 Makati, Metro Manila, Philippines] *Siganus fuscescens.*

95-004130 Canadian Wildlife Service. PRESERVING THE BLUEFIN TUNA. *Recovery (Can. Wildl. Serv.)* p. 5. Summer 1994. FR 40(2)

Thunnus thynnus.

95-004131 Castillo, R. and F. Perez. POTENTIAL ECONOMIC VALUE OF THE ICHTHYOLOGICAL FAUNA ON AN ARTIFICIAL REEF IN GRAN CANARIA. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1332. 1994. Abstract only. FR 40(2)

[Cent. Tecnol. Pesq. Taliarte, P.O. Box 56, Telde, 35200 Las Palmas (Canary Islands), Spain]

95-004132 Chabanet, Pascale and Gerard Faure. [RELATIONSHIP BETWEEN BENTHIC AND ICHTHYOLOGICAL COMMUNITIES ON CORAL REEFS.] *C.R. Acad. Sci. Ser. III Sci. Vie* 317(12):1151-1157. 1994. In French with English summ. FR 40(2)

[Lab. Ecol. Mar., BP 7151, Univ. Reunion, 15, ave. R.-Cassin, 97715 Saint-Denis-Messag Cedex 9, Reunion]

95-004133 Chamberlain, Robert H. and Roger A. Barnhart. EARLY USE BY FISH OF A MITIGATION SALT MARSH, HUMBOLDT BAY, CALIFORNIA. *Estuaries* 16(4):769-783. 1993. FR 40(2)

[S. Fla. Water Manage. Dist., Environ. Sci. Div., P.O. Box 24680, West Palm Beach 33416-4680] Data for 32 species.

95-004134 Chouinard, Ghislain A. and Alain Frechet. FLUCTUATIONS IN THE COD STOCKS OF THE GULF OF ST. LAWRENCE. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar. Sci. Symp.* Vol. 198. p. 121-139. 1994. In English with French summ. FR 40(2)

[Dep. Fish. & Oceans, Gulf Fish. Cent., P.O. Box 5030, Moncton, NB, Canada E1C 9B6] *Gadus morhua* in Canada.

95-004135 Cillaurren, E. DAILY FLUCTUATIONS IN THE PRESENCE OF *THUNNUS ALBACARES* AND *KATSUWONUS PELAMIS* AROUND FISH AGGREGATING DEVICES ANCHORED IN VANUATU, OCEANIA. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):581-591. 1994. FR 40(2)

[ORSTOM, P.O. Box 76, Port-Vila, Vanuatu]

95-004136 Cummings, Sandra L. COLONIZATION OF A NEARSHORE ARTIFICIAL REEF AT BOCA RATON (PALM BEACH COUNTY), FLORIDA. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1193-1215. 1994. FR 40(2)

[Coastal Planning & Eng., Inc., 2481 N.W. Boca Raton Blvd., Boca Raton, FL 33431] Data for 66 species.

95-004137 d'Cruz, Titto; Steve Creech and John Fernandez. COMPARISON OF CATCH RATES AND SPECIES COMPOSITION FROM ARTIFICIAL AND NATURAL REEFS IN KERALA, INDIA. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1029-1037. 1994. FR 40(2)

[Programme Community Organ., PCO Cent., Spencer Junction, Trivandrum-695 039, Kerala, India] Data for 10 species.

95-004138 Daan, Niels. TRENDS IN NORTH ATLANTIC COD STOCKS: A CRITICAL SUMMARY. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar. Sci. Symp.* Vol. 198. p. 269-270. 1994. FR 40(2)

[Inst. Fish. Res., P.O. Box 68, 1970 AB IJmuiden, Netherlands] *Gadus morhua.*

95-004139 Daan, Niels; Henk J. L. Heessen and John G. Pope. CHANGES IN THE NORTH SEA COD STOCK DURING THE TWENTIETH CENTURY. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar. Sci. Symp.* Vol. 198. p. 229-243. 1994. FR 40(2)

[Netherlands Inst. Fish. Res., P.O. Box 68, 1970 AB IJmuiden, Netherlands] *Gadus morhua.*

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95-004140 Danner, Eric M.; Thomas C. Wilson and Robert E. Schlotterbeck. COMPARISON OF ROCKFISH RECRUITMENT OF NEARSHORE ARTIFICIAL AND NATURAL REEFS OFF THE COAST OF CENTRAL CALIFORNIA. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):333-343. 1994. FR 40(2)

[TENERA Environ. Serv., P.O. Box 400, Avila Beach, CA 93424] *Sebastes mystinus, S. serranoides,* and *S. flavidus.*

95-004141 Davydova, Svetlana V. INTERACTIONS OF ARTIFICIAL HABITATS WITH THE ICHTHYOPLANKTON COMMUNITY OF COASTAL AREA OF THE SEA OF JAPAN, 1988-90. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1333. 1994. Abstract only. FR 40(1) [Pac. Res. Inst. Fish. & Oceanogr. (TINRO), 4 Shevchencko Alley, Vladivostok 690600, Russia] *Clupea pallasi pallasi* and *Liopsetta pinnifasciata.*

95-004142 Denman, Kenneth L. SCALE-DETERMINING BIOLOGICAL-PHYSICAL INTERACTIONS IN OCEANIC FOOD WEBS. *Aquatic Ecology: Scale, Pattern and Process. P. S. Giller, A. G. Hildrew, and D. G. Raffaelli, editors. Symp. Br. Ecol. Soc.* No. 34. p. 377-402. 1994. FR 40(2)

[Dep. Fish. & Oceans, Inst. Ocean Sci., P.O. Box 6000, Sidney, BC, Canada VL8 4B2]

95-004143 Dommasnes, A.; E. Torstensen; K. E. Jorstad and J. Rottingen. [HERRING AND SPRAT INVESTIGATIONS IN FJORDS BY THE "MICHAEL SARS" 1-27 NOVEMBER 1993.] *Fisken Havet* No. 11. 11p. 1994. In Norwegian with English summ. FR40(2)

Clupea harengus and *Sprattus sprattus* in Norway.

95-004144 Dubner, Barry Hart. PROBLEM ON THE UNITED STATES CONTINENTAL SHELF - MEASURING THE ENVIRONMENTAL "EFFECTIVENESS" OF THE OUTER CONTINENTAL SHELF ACT (OCSA). *Nat. Resour. J.* 34(3):519-534. 1994. FR 40(2)

[Thomas M. Cooley Law School, Lansing, MI]

95-004145 Epperly, Sheryan P. and Jon W. Dodrill. CATCH RATES OF SNOWY GROUPER, *EPINEPHELUS NIVEATUS*, ON THE DEEP REEFS OF ONSLOW BAY, SOUTHEASTERN U.S.A. *Bull. Mar. Sci.* 56(2):450-461. 1995. FR 40(2)

[NMFS, Southeast Fish. Sci. Cent., Beaufort Lab., 101 Pivers Island Rd., Beaufort, NC 28516] Data for 16 other species.

95-004146 Epstein, Paul R.; Timothy E. Ford; Charles Puccia and Cristina de A. Possas. MARINE ECOSYSTEM HEALTH: IMPLICATIONS FOR PUBLIC HEALTH. *Disease in Evolution: Global Changes and Emergence of Infectious Diseases. Proceedings of the Emerging Diseases Workshop, November 7-10, 1993, Woods Hole, Massachusetts. Mary E. Wilson, Richard Levins, and Andrew Spielman, editors. Ann. N.Y. Acad. Sci.* Vol. 740. p. 13-23. 1994. FR 40(2)

[Harvard Med. School, Cambridge Hospital, 1493 Cambridge St., Cambridge, MA 02139. tel:617-498-1032; fax:617-498-1671; e-mail:pepstein@igc.org]

95-004147 Fabi, Gianna and Loris Fiorentini. COMPARISON BETWEEN AN ARTIFICIAL REEF AND A CONTROL SITE IN THE ADRIATIC SEA: ANALYSIS OF FOUR YEARS OF MONITORING. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):538-558. 1994. FR 40(2)

[Ist. Ric. Pesca Marittima (I.R.Pe.M.), Consiglio Naz. Ric. (C.N.R.)-Molo Mandracchio, 60100 Ancona, Italy] Data for 57 species.

95-004148 Forest, A. and A. Souplet. [THE 1993 STATUS OF MARINE STOCKS OF THE NORTHEASTERN ATLANTIC.] *Equinoxe* No. 49. p. 34-40. 1994. In French. FR 40(2)

95-004149 Foster, Karen L.; Frank W. Steimle; William C. Muir; Roy K. Kropp and Barbara E. Conlin. MITIGATION POTENTIAL OF HABITAT REPLACEMENT: CONCRETE ARTIFICIAL REEF IN DELAWARE BAY - PRELIMINARY RESULTS. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):783-795. 1994. FR 40(2)

[Battelle Ocean Sci., 397 Washington St., Duxbury, MA 02332] *Centropristis striata, Tautoga onitis, Tautogolabrus adspersus, Stenotomus chrysops,* and *Chaetodipterus faber.*

95-004150 Fouda, M. M. and M. Al-Muharrami. AN INITIAL ASSESSMENT OF MANGROVE RESOURCES AND HUMAN ACTIVITIES AT MAHOUT ISLAND, ARABIAN SEA, OMAN. *Asia-Pacific Symposium on Mangrove Ecosystems. Proceedings of the International Conference Held at The Hong Kong University of Science & Technology, September 1-3, 1993. Yuk-Shan Wong and Nora F. Y. Tam, editors. Hydrobiologia* 295(1-3):353-362. 1995. FR 40(2)

[Sultan Qaboos Univ., Coll. Agric., P.O. Box 34, Al-Khod 123, Muscat, Oman] *Aphanius dispar, Ambassis natalensis, Terapon jarbua, Gerres oyena,* and data for 15 other species.

MARINE MANAGEMENT AND RESEARCH (Continued)

95-004151 Frank, Kenneth T.; Kenneth F. Drinkwater and Fredrick H. Page. POSSIBLE CAUSES OF RECENT TRENDS AND FLUCTUATIONS IN SCOTIAN SHELF/GULF OF MAINE COD STOCKS. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993 Jakob Jakobsson, editor. Int. Counc. Explor Sea Mar. Sci. Symp.* Vol. 198. p. 110-120. 1994. FR 40(2)
[Mar. Fish Div., Dep. Fish. & Oceans, Bedford Inst. Oceanogr., P.O. Box 1006, Dartmouth, NS, Canada B2Y 4A2] *Gadus morhua.*

95-004152 Friberg, Nikolai; Brian Kronvang; Lars M. Svendsen; Hans Ole Hansen and Mogens B. Nielsen. RESTORATION OF A CHANNELIZED REACH OF THE RIVER GELSA, DENMARK: EFFECTS ON THE MACROINVERTEBRATE COMMUNITY. *Aquat. Conserv. Mar. Freshwater Ecosyst.* 4(4):289-296. 1994. FR 40(2)
[Natl. Environ. Res. Inst., Dep. Freshwater Ecol., 25 Vejlsovej, P.O. Box 314, DK-8600 Silkeborg, Denmark]

95-004153 Friedlander, Alan; James Beets and William Tobias. EFFECTS OF FISH AGGREGATING DEVICE DESIGN AND LOCATION ON FISHING SUCCESS IN THE U.S. VIRGIN ISLANDS. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):592-601. 1994. FR 40(2)
[Dep. Zool. & Coop. Fish. Res. Unit, Univ. Hawaii, 2538 The Mall, Honolulu 96822] *Sphyraena barracuda, Scomberomorus cavalla, Coryphaena hippurus, Thunnus atlanticus,* and data for seven other species.

95-004154 Garrod, D. J. and A. Schumacher. NORTH ATLANTIC COD: THE BROAD CANVAS. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar. Sci. Symp.* Vol. 198. p. 59-76. 1994. FR 40(2)
[Minist. Agric., Fish. & Food, Directorate Fish. Res., Fish. Lab., Pakefield Rd., Lowestoft, NR33 0HT Suffolk, England] *Gadus morhua.*

95-004155 Gjosaeter, Harald. [CAPELIN STOCK IN THE BARENTS SEA DURING THE WINTER OF 1994.] *Fisken Havet* No. 2. 10p. 1994. In Norwegian with English summ. FR 40(2)
[Havforskningsinst., Nordnesparken 2, Postboks 870 Nordnes, 5024 Bergen, Norway] *Trisopterus minutus.*

95-004156 Gomez-Buckley, Marta C. and Ricardo J. Haroun. ARTIFICIAL REEFS IN THE SPANISH COASTAL ZONE. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor Bull. Mar. Sci.* 55(2-3):1021-1028. 1994. FR 40(2)
[School Fish. WH-10, 121-A Fish. Cent., Univ. Wash., Seattle 98195]

95-004157 Gordon, William R., Jr. A ROLE FOR COMPREHENSIVE PLANNING, GEOGRAPHICAL INFORMATION SYSTEM (GIS) TECHNOLOGIES AND PROGRAM EVALUATION IN AQUATIC HABITAT DEVELOPMENT. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):995-1013. 1994. FR 40(2)
[Dep. Mar. Affairs, 304 Washburn Hall, Univ. R.I., Kingston 02881]

95-004158 Grassle, J. Frederick and Judith P. Grassle. NOTES FROM THE ABYSS: THE EFFECTS OF A PATCHY SUPPLY OF ORGANIC MATERIAL AND LARVAE ON SOFT-SEDIMENT BENTHIC COMMUNITIES. *Aquatic Ecology: Scale, Pattern and Process. P. S. Giller, A. G. Hildrew, and D. G. Raffaelli, editors. Symp. Br. Br. Ecol. Soc.* No. 34. p. 499-515. 1994. FR 40(2)
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[Dep. Land & Nat. Resour., Div. Aquat. Resour., 1151 Punchbowl St., Honolulu, HI 96813] Data for 14 species.

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[Northfield House, Cheselbourne, Dorchester, Dorset DT2 7NT, England] *Pampus argenteus, Lutjanus coccineus, L. malabaricus, Epinephelus tauvina,* and *E. suillis.*

95-004195 Mauvais, Jean-Louis. [LITTORAL MANAGEMENT AND COMPATIBILITY OF ACTIVITIES: HISTORY, CONCEPT DEVELOPMENT, MANAGEMENT TOOLS.] *Equinoxe* No. 52. p. 4-14. 1994. In French. FR 40(2)

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[Inst. Nac. Invest. Pescas, Cent. Reg. Invest. Pesqueira Algarve Av. 5 Outubro 8700 Othao, Portugal]

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[Mar. Biol. Lab., Univ. Balearic Islands, 07071 Palma de Mallorca, Spain] Data for 33 species.

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[Pac. Fish. Environ. Group, Southwest Fish. Sci. Cent., P.O. Box 831, Monterey, CA 93942]

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95-004204 Oiestad, Victor. HISTORIC CHANGES IN COD STOCKS AND COD FISHERIES: NORTHEAST ARCTIC COD. *Cod and Climate Change. Proceedings of a Symposium Held in Reykjavik, 23-27 August 1993. Jakob Jakobsson, editor. Int. Counc. Explor. Sea Mar. Sci. Symp.* Vol. 198. p. 17-30. 1994. FR 40(2)
[Norwegian Coll. Fish. Sci., Univ. Tromso, N-9037 Tromso, Norway] *Mallotus villosus* and *Gadus morhua* in Norway.

95-004205 Omar, Raja M. Noordin Raja; Cheah Eng Kean; Sukarno Wagiman; Abdul Matalib Mat Hassan; Mobarak Hussein; Raja Bidin Raja Hassan and Che Omar Mat Hussin. DESIGN AND CONSTRUCTION OF ARTIFICIAL REEFS IN MALAYSIA. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):1050-1061. 1994. FR 40(2)
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95-004208 Patton, M. L.; C. F. Valle and R. S. Grove. EFFECTS OF BOTTOM RELIEF AND FISH GRAZING ON THE DENSITY OF THE GIANT KELP, *MACROCYSTIS*. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):631-644. 1994. FR 40(2)
[Ogden Environ., 5510 Morehouse Dr., San Diego, CA 92121-1709] *Medialuna californiensis, Girella nigricans, Hypsypops rubicundus*, and *Semicossyphus pulcher* in California.

95-004209 Perrotta, Ricardo G. and Juan Pablo Pertierra. [POPULATION DYNAMICS OF MACKEREL (*SCOMBER JAPONICUS*) OF MAR DEL PLATA (ARGENTINE REPUBLIC) FISHERIES.] *INIDEP (Inst. Nac. Invest. & Desarrollo Pesq.) Doc. Cient.* 2:31-44. 1993. In Spanish with English summ. FR 40(2)
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95-004210 Pollard, D. A. A COMPARISON OF FISH ASSEMBLAGES AND FISHERIES IN INTERMITTENTLY OPEN AND PERMANENTLY OPEN COASTAL LAGOONS ON THE SOUTH COAST OF NEW SOUTH WALES, SOUTH-EASTERN AUSTRALIA. *Estuaries* 17(3):631-646. 1994. FR 40(2)
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[Vantuna Res. Group, Occidental Coll., Los Angeles, CA 90041] *Chromis punctipinnis, Girella nigricans, Heterostichus rostratus, Paralabrax clathratus, Hypsypops rubicundus,* and data for 29 other species in California.

95-004212 Potts, Thomas Andrew and Alan Wilson Hulbert. STRUCTURAL INFLUENCES OF ARTIFICIAL AND NATURAL HABITATS ON FISH AGGREGATIONS IN ONSLOW BAY, NORTH CAROLINA. *Proceedings of the Fifth International Conference on Aquatic Habitat Enhancement, 3-7 November 1991, Long Beach, California, USA. William J. Richards, editor. Bull. Mar. Sci.* 55(2-3):609-622. 1994. FR 40(2)

[NOAA/Natl. Undersea Res. Cent., Univ. N.C.-Wilmington, Fla. Keys Res. Program, 514 Caribbean Dr., Key Largo, FL 33037] Data for 54 species.

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[Cent. Res. New Int. Econ. Order, No. 1 First St., Haddows Rd., Madras-600 006, India]

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- Canada: Oldman River
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BOOK REVIEW

Thunhorst, Gwendolyn A. 1993. *Wetland Planting Guide for the Northeastern United States: Plants for Wetland Creation, Restoration, and Enhancement*. Environmental Concern, Inc., 210 W. Chew Ave., St. Michaels, MD 21663. v + 179p. Available from the publisher at $19.95 (paper).

Mitigating wetland loss has initiated widespread efforts aimed at establishing new wetlands or restoring degraded wetlands to previous conditions. Activities of this sort are relatively new and wetland establishment and restoration is still viewed by many as more art than science. To be sure, establishing a functioning, sustainable wetland is tricky, involving a detailed understanding of site hydrology, soils, water chemistry, and how these factors interact to support wetland vegetation. Although there are skilled practitioners of wetland establishment and restoration there is a dearth of organized, accessible, and practical information available to others involved in similar efforts.

This book synthesizes information on the hydrologic requirements, life history traits, physical appearance, fishery and wildlife benefits, habitat affinities, and planting options for approximately 150 wetland plant species from the northeastern United States. The first six pages of the book, in need of some technical editing, provide a detailed explanation of the information provided for each plant. The bulk of the book consists of a collection of one-page information sheets on individual plant species, divided into sections for submerged and floating aquatic vegetation, herbaceous emergent vegetation, shrubs, and trees. A list of wetland plant suppliers, references, and an index are also included.

A key feature of many wetlands is the diversity of plants and animals they support. I applaud the attempt by the author to foster wetland plant diversity by recognizing the importance of plant species other than those that are cheap, widely available, and easy to plant. Information provided in this book should aid the design and implementation of wetland projects that include a robust and appropriate diversity of wetland vegetation, which in turn will support a greater diversity of animal species.

My one serious exception to the book is the inclusion of purple loosestrife (*Lythrum salicaria*) as a planting option. The author cautions that the species is "considered invasive," which inadequately conveys the extent to which this non-native species invades wetlands throughout the United States—often to the exclusion of important and useful native wetland plants. Perhaps it would have been appropriate to include purple loosestrife and other invasive species in a list of plants that should be avoided in wetland design and planting. In spite of this, I think the book takes an important step in providing a straightforward compendium of practical information on wetland plant species, with direct application to wetland establishment and restoration projects.—*Michael L. Scott, National Biological Service, Midcontinent Ecological Science Center, Fort Collins, Colorado 80525-3400 (tel:970-226-9475; fax:970-226-9230; e-mail:mike_l_scott@nbs.gov).*

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BOOK REVIEW

Hochachka, P.W., and T.P. Mommsen, editors. 1991. *Biochemistry and Molecular Biology of Fishes. Volume 1. Phylogenetic and Biochemical Perspectives.* Elsevier Science Publishers, P.O. Box 1991, 1000 BZ Amsterdam, The Netherlands. vii + 361p. Available from the publisher and from Elsevier Science, Inc., P.O. Box 945, Madison Square Station, New York, NY 10160-0757, at $146.00 (cloth).

Phylogenetic and Biochemical Perspectives is the first volume in a new series designed to meet the need for state-of-the-art reviews in the rapidly growing field of biochemistry and molecular biology of fishes. This series aims to set apart the field of biochemistry of fish from physiology of fish, which has had its excellent and enduring series by Hoar and Randall and successors. The 13 chapters by experts at a number of universities reflect their areas of specialization and include: biochemistry and cell physiology of water, the fish genome, mitochondrial synthesis of glutamine and citrulline, vision and luminescence in fish, pheromones, urea synthesis, osmoregulation, carbon dioxide and ammonia metabolism, buoyancy, locomotion, endothermy, ectothermy, and pressure. Room is still left for future volumes to address other aspects of fish biochemistry and phylogeny.

Each chapter in Volume 1 has an extensive number of references, which should acquaint new researchers with the primary literature for each specialized topic and update established researchers. The species index and subject index at the end integrate the volume. Unfortunately, common names were not included in the species list; their compilation in future volumes would increase the usefulness of the index. The subject index is representative but not exhaustive, and leads the reader to topic areas. Future authors in the series might provide the editors with a more extensive index.

Besides finding updated information to teach graduate students and fodder for new research ideas, the reader could spend many happy hours exploring questions such as (1) why are the brains of tunas hotter than their environment (they have a "furnace" [heater organ] at the base of the brain), (2) why do swimbladders of deep ocean benthopelagic fish appear to foam when they reach the surface (their fat-filled swim bladders contain hyperbaric oxygen), or (3) how is high muscle power generated to overcome the viscous resistance of water for rapid swimming of large fish (see p. 264).

The audiences to which this excellent quality volume will appeal include graduate students and professors in courses and seminars in comparative biochemistry (this book could supplement the textbook) and researchers in piscine biochemistry. Those in mammalian or microbial biochemistry will find the theoretical advances stimulating. Investigators in applied fields, such as fish health and toxicology, could add this useful in-depth reference to their libraries.—*Dora R. Passino-Reader, National Biological Service, Great Lakes Science Center, 1451 Green Road, Ann Arbor, Michigan 48105 (tel:313-378-1229).*

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BOOK REVIEW

Hochachka, P.W., and T.P. Mommsen, editors. 1993. *Biochemistry and Molecular Biology of Fishes. Volume 2. Molecular Biology Frontiers.* Elsevier Science Publishers, P.O. Box 1991, 1000 BZ Amsterdam, The Netherlands. xiii + 470p. Available from the publisher and from Elsevier Science, Inc., P.O. Box 945, Madison Square Station, New York, NY 10160-0757, at $202.00 (cloth).

Molecular Biology Frontiers is the second volume in a new series designed to meet the need for state-of-the-art reviews in the rapidly growing field of biochemistry and molecular biology of fishes. The 21 chapters by experts at a number of universities, primarily in Canada, include the following topics: DNA fingerprinting in fish, oncogenes, cytochrome P450, bacterial kidney disease, immune system, metallothionein and stress protein genes, fish antifreeze proteins and their gene expression, corticotropin-releasing factors, estrogen receptor gene, vitellogenin gene expression, and insulin and insulin-like growth factor genes in fish and other primitive chordates.

Because many of the readers of *Fisheries Review* likely work in applied fields, I looked for applications of the theoretical information to current problems. For example, the chapter by Valotaire et al. on the estrogen receptor gene contains a section of information that foreshadows the current intense concern about environmental contaminants that can be estrogen mimics. They state (p. 381) that chemicals such as PCBs, lindane, and chlordecone are "able to induce V_gmRNA in hepatocyte cell cultures, indicating that an ER [estrogen receptor] dependent mechanism is involved in the regulation of mRNA levels by these pesticides." Wright's chapter discusses how DNA fingerprinting techniques are useful for identification of individual fish from different populations and can distinguish between hatchery-reared and naturally produced fish in the wild, requiring only small samples of blood or fin so that valuable fish do not need to be sacrificed.

As in Volume 1, each chapter in Volume 2 has an extensive number of references, which will save researchers and graduate students time in doing literature searches. The species index and subject index at the end integrate the volume. Common names were included in the subject index—although logically they might have been included in the species list. The editors might note how the American Fisheries Society organizes the index in *Common and Scientific Names of Fishes from the United States and Canada.*

Graduate students and professors in comparative molecular biology and genetics and researchers in piscine genetics will be in the audience to which this excellent quality volume will appeal. Researchers in mammalian or microbial genetics will find informative syntheses of theoretical advances. Investigators in applied fields, such as aquaculture, fish stock assessment, and aquatic toxicology, will want to add this significant reference to their libraries.—*Dora R. Passino-Reader, National Biological Service, Great Lakes Science Center, 1451 Green Road, Ann Arbor, Michigan 48105 (tel:313-378-1229).*

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